Think Outside the Bricks

AI planning with SAP Databricks in the SAP Business Data Cloud

Team Project HWS 2025

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In cooperation with the
Chair of General Management and Information Systems (Prof. Dr. A. Heinzl)

Our locations worldwide

Germany | Heidelberg	
Germany | Hamburg	
Germany | Cologne	
Spain | Valencia	
Argentina | Buenos Aires	

150+ Customers

500+ Projects

2 Mio. User

200 Employees

Project Background

- Business experts (BI Consultants, Data Scientists, Data Analysts) need to **plan, analyze, and predict across domains**.
- **Data silos** across LoBs (Finance, Operations, HR, Sustainability, etc.) block collaboration.
- **Manual integration** leads to slow, error-prone, and unreliable insights.
- Hard to combine **actuals, forecasts, and predictions** into a single planning cycle.
- Result: **Fragmented decision-making, reactive planning, and missed opportunities**.

Planning

Define business targets and allocate resources.

Analyze

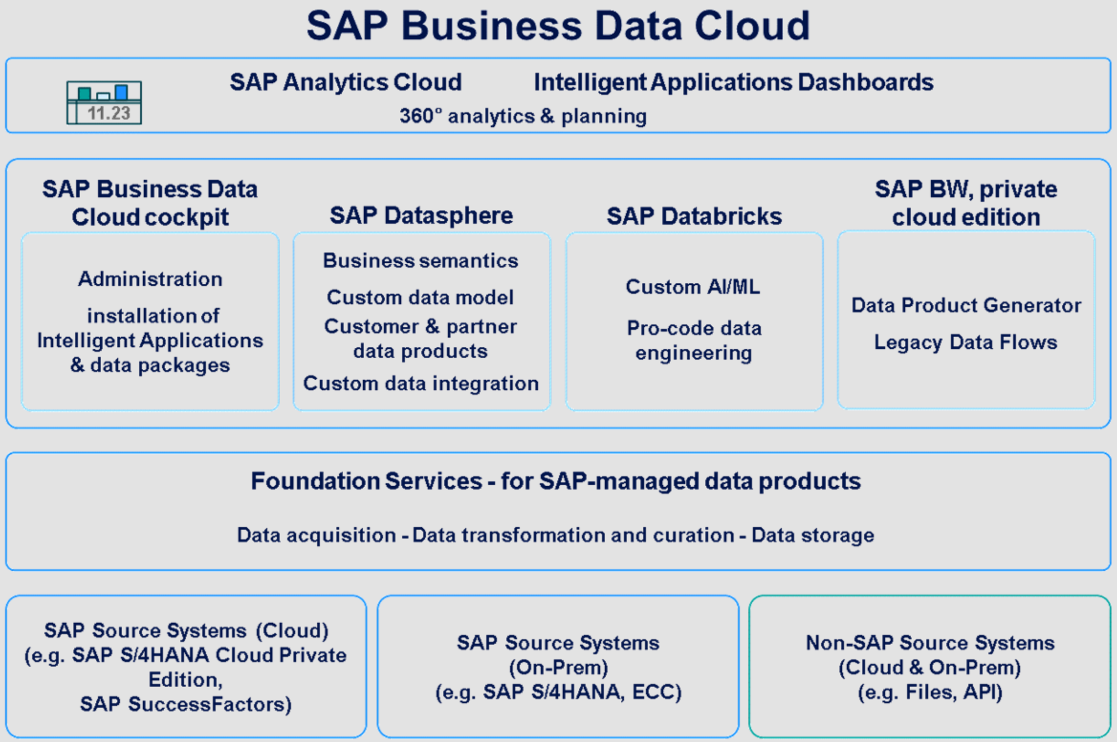
Monitor actuals, KPIs, and variances across domains

Predict

Forecast outcomes and uncover future opportunities

Potential Solution

- **SAP Business Data Cloud** Unifies data from SAP & non-SAP sources → no more silos.
- **SAP Datasphere**: Harmonizes, models, and keeps business context intact.
- **SAP Databricks**: Adds AI/ML capabilities for forecasting, simulations, and predictions.
- **SAP Analytics Cloud**: Brings together BI, planning, and predictive analytics in one tool.
- **Result: A seamless planning cycle** → *Plan, Analyze, Predict* with trusted, governed data.



Project **Scope & Goals**

Integrate Data

From across multiple Lines of Business (Finance, Operations, HR, Sustainability, etc.) into one trusted environment.

Harmonize, Combine and Enrich

Unify data models and preserve business context to enable reliable and consistent processing.

Enhance with AI/ML

Apply clustering and predictive models to forecast KPIs and simulate upcoming scenarios.

Enable Analysis and Planning

Provide business experts with a single toolset to execute the full planning cycle – *plan, analyze, and predict*.

Technologies:

- SAP Business Data Cloud
- SAP Datasphere
- SAP Databricks
- SAP Analytics Cloud

✓ **Goal:** Deliver a **single, AI-powered planning cycle** → *Plan smarter, predict better, act faster*.

Project Setup & Support

Infrastructure for Collaboration & Realization

sovanta provide access to all project-relevant technologies and systems. Additionally, collaboration tools like MS Teams, Confluence, and Jira (if needed) will support documentation, communication, and task management.

Coaching from Business and System Experts

Guidance will be provided on:

- Understanding and handling data.
- Defining user stories together with business experts.
- Solving technical challenges with tools and implementation

Self-Organized Project Team

The student team takes full ownership of the delivery process:

- Define roles and responsibilities within the team (e.g., Scrum Master, Data Engineer, Analyst, etc.).
- Break down work into concrete work packages and assign ownership.
- Plan and execute sprints, track progress, and ensure transparency.
- We act as the Product Owner — defining the overall project scope and vision, while the team drives the implementation and delivery.

Mentoring

- Dr. Tommi Kramer
- Patryk Preisner
- Prof. Dr. Armin Heinzl

Project Skills & Expectations

Must Have:

- ✓ Curiosity & motivation: Have fun while solving real-world business problems
- ✓ Knowledge of clustering and forecasting techniques
- ✓ Knowledge on data handling and Preprocessing
- ✓ Python and SQL skills
- ✓ High level of proactivity

Preferred:

- ✓ Knowledge about SAP cloud technologies
- ✓ Experience with ML/AI platforms and libraries
- ✓ Understanding of semantic data modeling and semantic web concepts
- ✓ Basic knowledge of business planning processes (plan → analyze → predict)

Participants

3 – 5 Students

Language

German or English

Duration

6 months / 1 semester

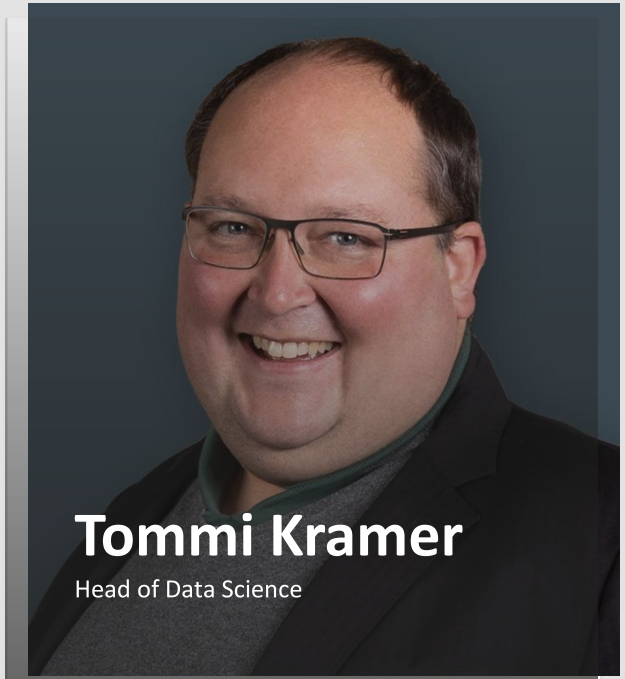
Suitability

Wifo, MMDS very welcome

Work Mode

Agile setup, interim presentations

Contacts



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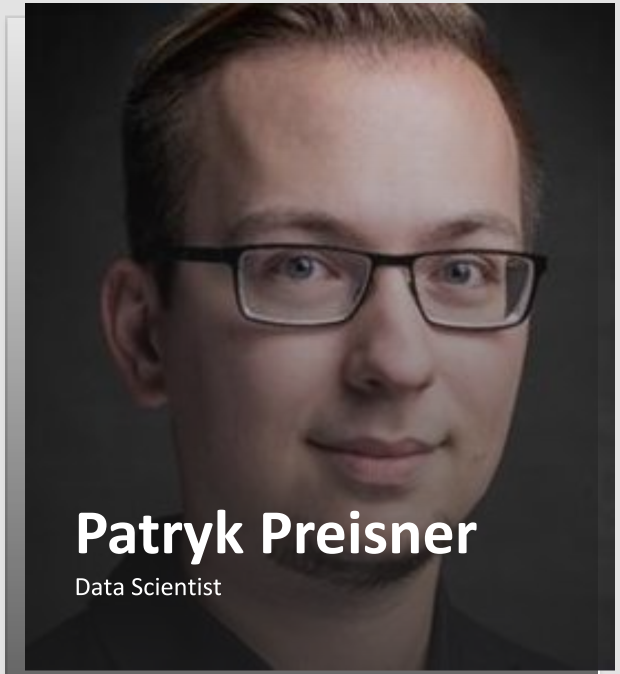

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Thank you

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